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PHOTOGRAPHIC INTERPRETATION REPORT



SELECTED RADAR SITES
NORTH VIETNAM

NPIC/R-58/69

AUGUST 1969

GROUP 1: EXCLUDED FROM
AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

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WARNING

This document contains information affecting the national defense of the United States, within the meaning of Title 18, sections 793 and 794, of the U.S. Code, as amended. Its transmission or revelation of its contents to or receipt by an unauthorized person is prohibited by law.

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INTRODUCTION

This report is an NPIC study designed to present an overall view of the radar facilities in North Vietnam. It is not all-inclusive, since it will contain only those sites which have been observed on aerial photography. Fire control radar for antiaircraft artillery or missiles will not be reported.

The study is divided into four categories:

CATEGORY A. Air Warning/Ground Controlled Intercept (AW/GCI). These are multiple radar sites which contain a variety of electronic equipment and have a capability for the determination of the range, bearing, altitude, and identification, friend or foe (IFF), of aircraft. However, all sites which include a TOKEN-type or BAR LOCK-type radar will be included in this category even if associated heightfinding or IFF radar cannot be identified.

CATEGORY B. Air Search. These are normally singly deployed radars which have either limited or no heightfinding capability. Acquisition radars which are associated with AAA or SAM sites will not be reported.

CATEGORY C. Surface Search. These radars are normally deployed on high ground along the coast or on offshore islands and are used to locate and track shipping.

CATEGORY D. Ground Controlled Approach (GCA). These radars are located at airfields and provide an all-weather capacity.

The introduction to each of the categories contains a table of contents and a small-scale plot map. A photographic analysis of the site with the status noted on the latest coverage, a large-scale plot map, and a photograph are provided for each site.

The type of photography utilized in this report limits mensuration; therefore, all measurements are necessarily approximate.

Since most radar equipment in North Vietnam is mobile and may be readily moved from one location to another, sites will not be deleted from the report and no attempt will be made in this report to indicate the current operational status of any radar site.

Since one Basic Encyclopedia (BE) number frequently refers to several radar sites which have previously been reported under different names, this report will attempt to include both the BE-associated name and the local name previously used. This report will also use the geographic coordinates of the particular site rather than those currently used in the BE.

This report will be produced in cumulative increments and when complete will replace NPIC/R-32/67 (Southeast Asia Activity Report, Selected Radar Sites, North Vietnam). Periodic changes will be produced as necessary.

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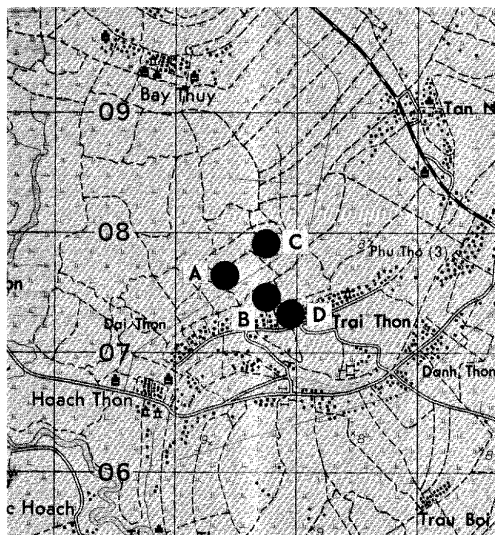
INSTALLATION OR ACTIVITY NAME				COUNTRY	
Bai Thuong/Trai Thon AW/GCI Radar Facility				25X1A	
UTM COORDINATES				VN	
WH665077					
GEOGRAPHIC COORDINATES		CATEGORY	BE NUMBER	COMIREX NO.	NIETB NO.
19-58-00N 105-38-14E					
MAP REFERENCE					

AMS. Series L7014, Sheet 6148-IV, scale 1:50,000

LATEST IMAGERY USED	NEGATION DATE (if required)
25X1D	NA

The facility, located near Trai Thon and 10.8 nm NE of Bai Thuong Airfield, consists of four areas. Area A has two vehicle revetments at UTM WH664077, Area B has a radar mound and two vehicle revetments at UTM WH668075, Area C has two vehicle revetments at UTM WH667079, and Area D has a vehicle revetment and two other revetments at UTM WH669073.

This facility was occupied on [REDACTED] by a MOON FACE in Area A, a STONE CAKE in Area B, two unidentified vehicles in Area C, and the status of Area D was undetermined.



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CATEGORY A

AIR WARNING/GROUND CONTROLLED INTERCEPT

The North Vietnamese AW/GCI radar site normally consists of an air search radar and a heightfinder. The most frequently observed combinations are the BAR LOCK or BIG BAR air search radars with the SIDE NET heightfinder, and the MOON FACE air search radar with ROCK CAKE/STONE CAKE heightfinder. The BAR LOCK/SIDE NET combination will often have one or more backup air warning radars such as the KNIFE REST B, SPOON REST A, or FLAT FACE radar.

REQUIREMENT

DIA 77-8 (DIAXX-2)
NPIC Project: 250134

25X1D

25X1D

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25X1C

NPIC/R-58/69

Approved For Release 2000/05/10 : CIA-RDP78B04560A006800010053-6

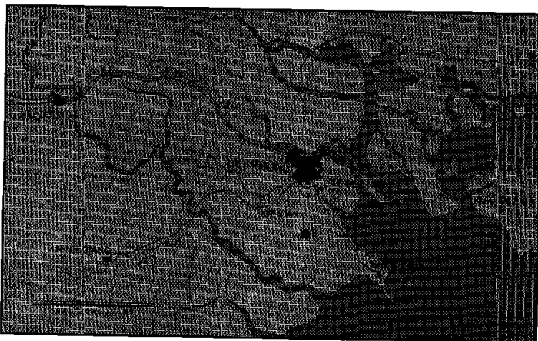
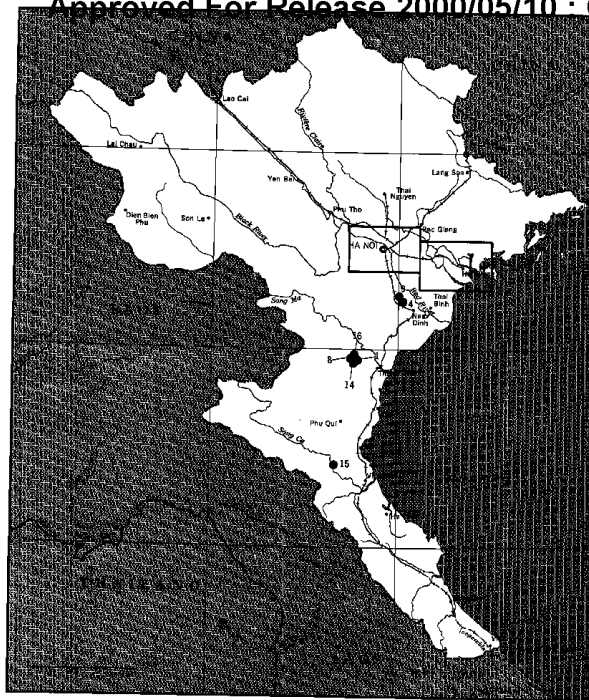


TABLE OF CONTENTS CATEGORY A
AIR WARNING/GROUND CONTROLLED INTERCEPT

MAP KEY	INSTALLATION NAME
1	Bai Thuong/Trai Thon
2	Thuy Huong
3	Ha Dong/Bac Mai
4	Phu Ly/Hung Yen
5	Hanoi/Bac Mai
6	Haiphong Kien An
7	Hanoi/Duc Tu
8	Bai Thuong/Tinh Thon
9	Phuc Thuy
10	Phuc Yen/Duc Hieu

BE NUMBER

25X1A

EFFECTIVE PAGE
A-3 (Original)
A-5 (Original)
A-7 (Original)
A-9 (Original)
A-11 (Original)
A-13 (Original)
A-15 (Original)
A-17 (Original)
A-19 (Original)
A-21 (Original)

MAP KEY

11	Bach Mai/Nhan My
12	Bach Mai/Phu Dien
13	Ha Dong
14	Bai Thuong/Dong Phong
15	Cam Ngoc/Le Ngia
16	Duyen Thuong
17	Hanoi/Thuy Ha
18	Nghia Xa/Dong Ngoc
19	Ha Dong/Sieu Quan
20	Thuong Che/Hong Cau

BE NUMBER

25X1A

EFFECTIVE PAGE
A-23 (Original)
A-25 (Original)
A-27 (Original)
A-29 (Original)
A-31 (Original)
A-33 (Original)
A-35 (Original)
A-37 (Original)
A-39 (Original)
A-41 (Original)

A-2

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Approved For Release 2000/05/10 : CIA-RDP78B04560A006800010053-6

NO FOREIGN DISSEM

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25X1C

INSTALLATION OR ACTIVITY NAME		COUNTRY
Thuy Huong AW/GCI Radar Facility		VN
UTM COORDINATES	GEOGRAPHIC COORDINATES	
WJ974127	20-54-50N 105-56-12E	
MAP REFERENCE		

AMS. Series L7014, Sheet 6150-I, scale 1:50,000

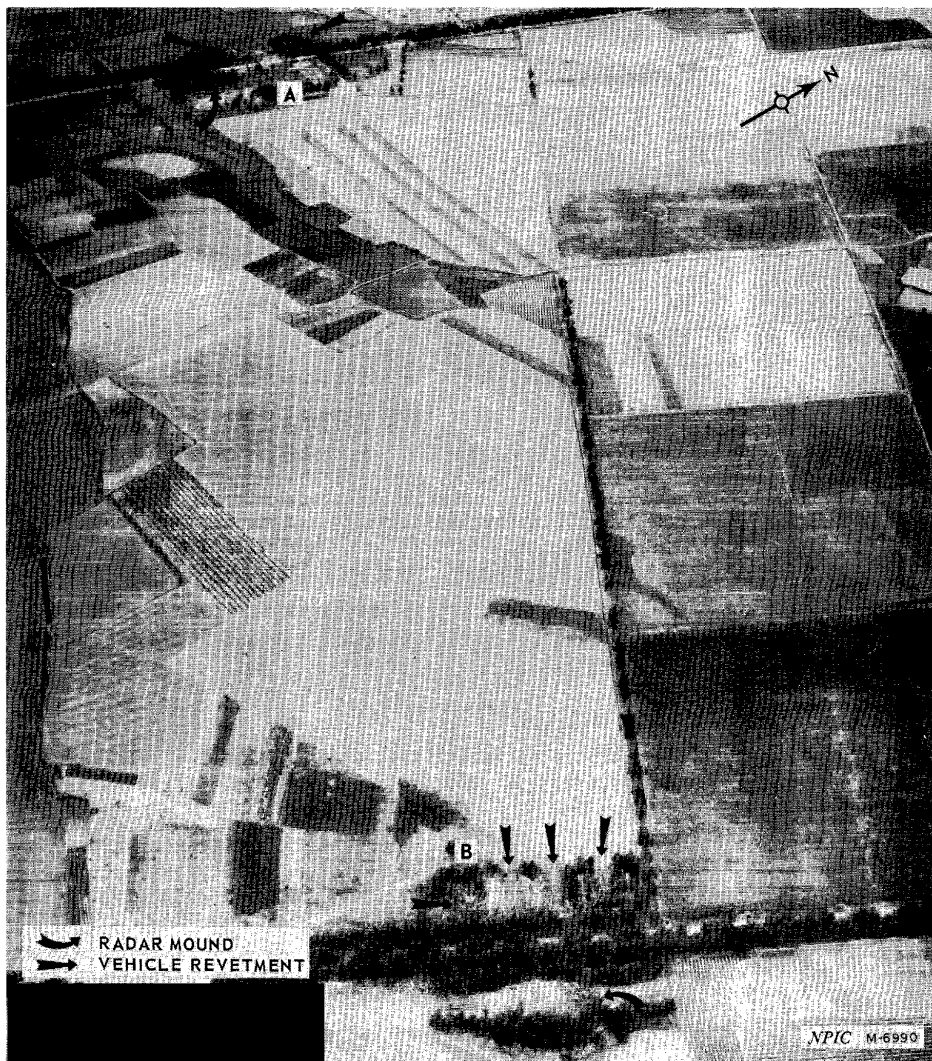
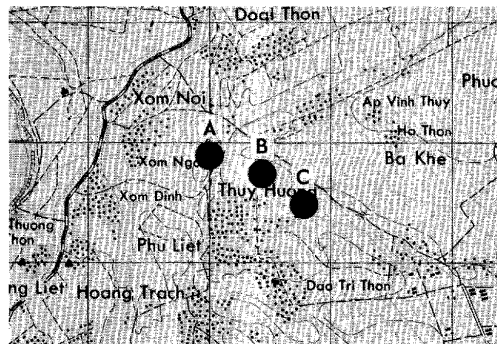
LATEST IMAGERY USED	NEGATION DATE (if required)
	NA

25X1D

The facility, located 8.6 nm SE of Hanoi, consists of three areas. Area A has one radar mound and two vehicle revetments at UTM WJ970129, Area B has one radar mound and four vehicle revetments at UTM WJ974127, and Area C has three vehicle revetments.

This facility has not been observed occupied on photography. The latest coverage, on [REDACTED] did not show Area C.

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INSTALLATION OR ACTIVITY NAME				COUNTRY	
Ha Dong/Bac Mai AW/GCI Radar Facility				VN	
UTM COORDINATES	GEOGRAPHIC COORDINATES	CATEGORY	BE NUMBER	COMIREX NO.	NIETB NO.
WJ865177	20-57-36N 105-50-00E		25X1A		
MAP REFERENCE					

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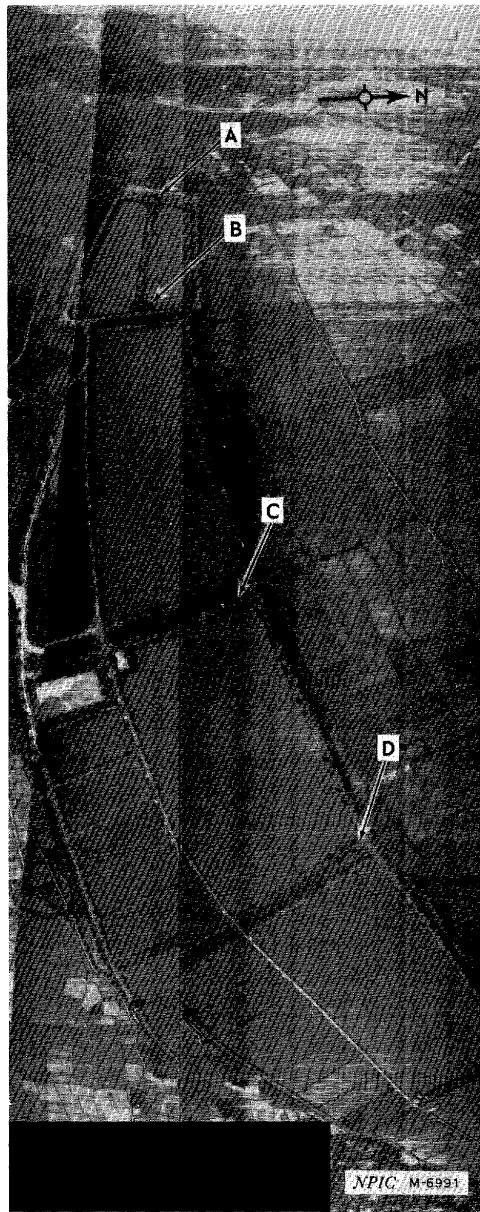
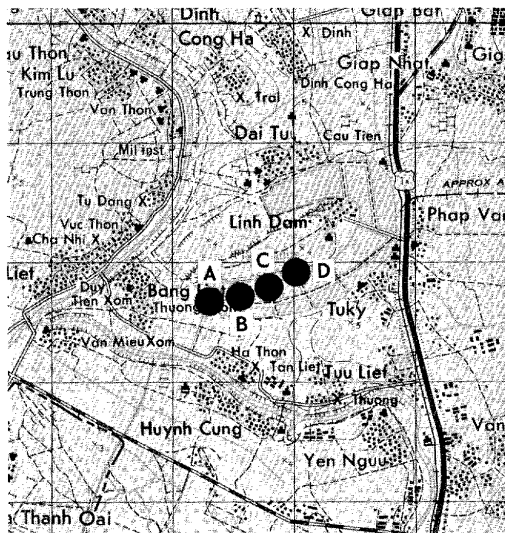
LATEST IMAGERY USED

NEGATION DATE (if required)

NA

The facility, located 1.9 nm south of Hanoi/Bac Mai Airfield, consists of four areas. Area A has one radar mound at UTM WJ863177, Area B at UTM WJ865177, Area C at UTM WJ867178, and Area D at UTM WJ870179. Areas B, C, and D are unrevetted.

This facility was occupied in [REDACTED] by a BAR LOCK radar in Area A, a SIDE NET radar in Area B, a SPOON REST radar in Area C, and a FLAT FACE radar in Area D. The installation was unoccupied on [REDACTED]



25X1D

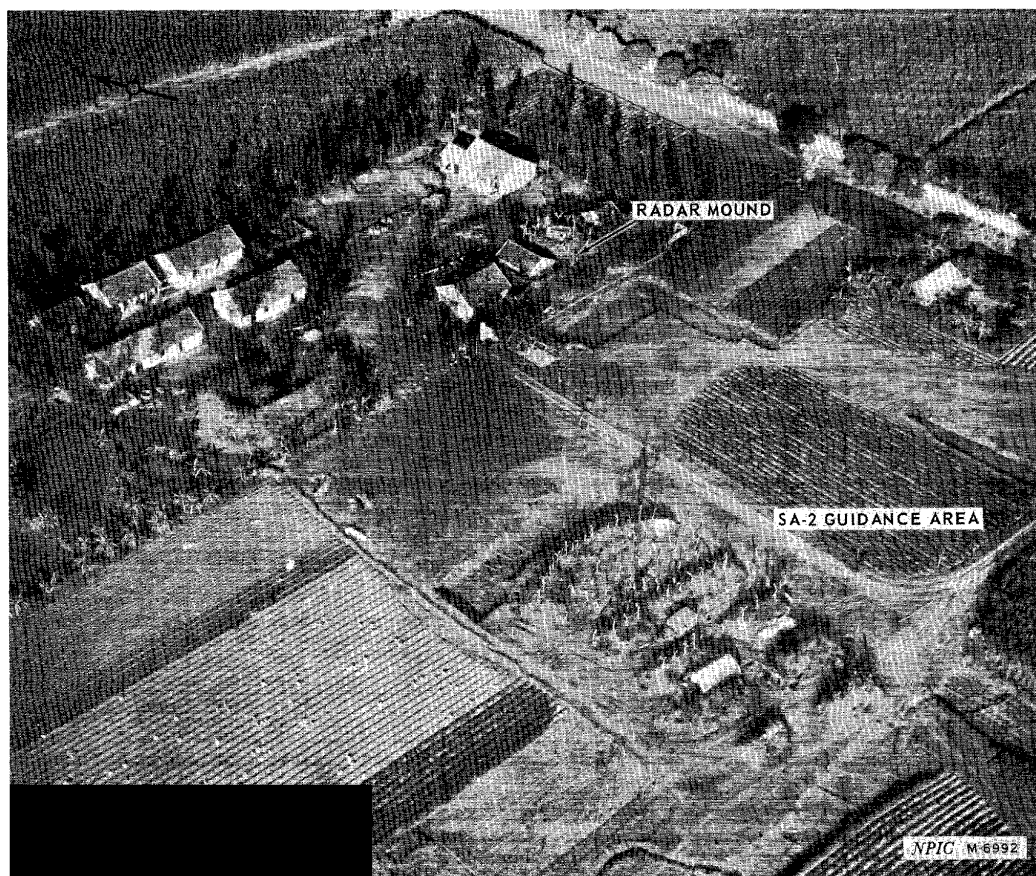
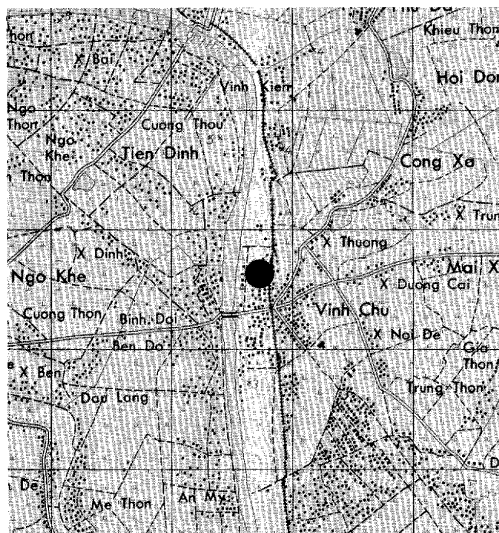
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NO FOREIGN DISSEM

INSTALLATION OR ACTIVITY NAME		COUNTRY
Phu Ly/Hung Yen AW/GCI Radar Facility		VN
UTM COORDINATES	GEOGRAPHIC COORDINATES	
XH076736	20-33-35N 106-02-05E	
MAP REFERENCE		
AMS. Series L7014, Sheet 6250-III, scale 1:50,000		
LATEST IMAGERY USED		NEGATION DATE (if required)
		NA

The facility, located 5.4 nm SSW of Hung Yen, consists of a radar mound near the guidance area of Hanoi SAM Site 317, two vehicle revetments, and a storage revetment.

This facility was occupied by a MOON FACE radar in the guidance area and a ROCK CAKE/STONE CAKE radar on the mound in [REDACTED] however, it was unoccupied on [REDACTED]



NO FOREIGN DISSEM

INSTALLATION OR ACTIVITY NAME		COUNTRY
Hanoi/Bac Mai Airfield AW/GCI Radar Facility 25X1A		VN
UTM COORDINATES	GEOGRAPHIC COORDINATES	
WJ867211	20-59-28N 105-50-05E	
MAP REFERENCE		

AMS. Series L7014, Sheet 6150-I, Scale 1:50,000

LATEST IMAGERY USED

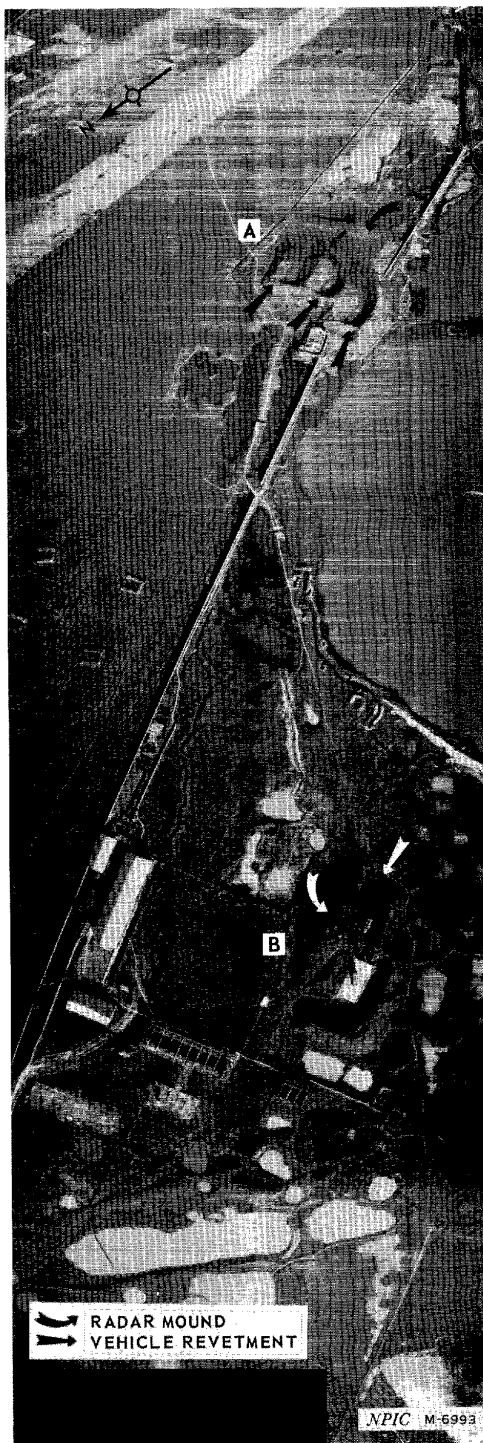
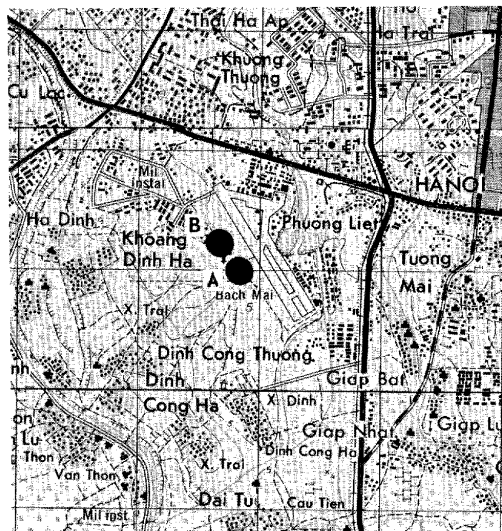
NEGATION DATE (if required)

NA

The facility, located at Hanoi/Bac Mai Airfield, 2.0 nm SSW of Hanoi, consists of two areas. Area A has one radar mound and three vehicle revetments at UTM WJ868211 and Area B has one radar mound and one vehicle revetment at UTM WJ866212.

This facility was occupied by a BIG BAR radar, a ROCK CAKE/STONE CAKE radar, and a KNIFE REST B radar in

It was unoccupied on although three MERCURY GRASS antennas and two associated van trucks were evident in Area B.



25X1D

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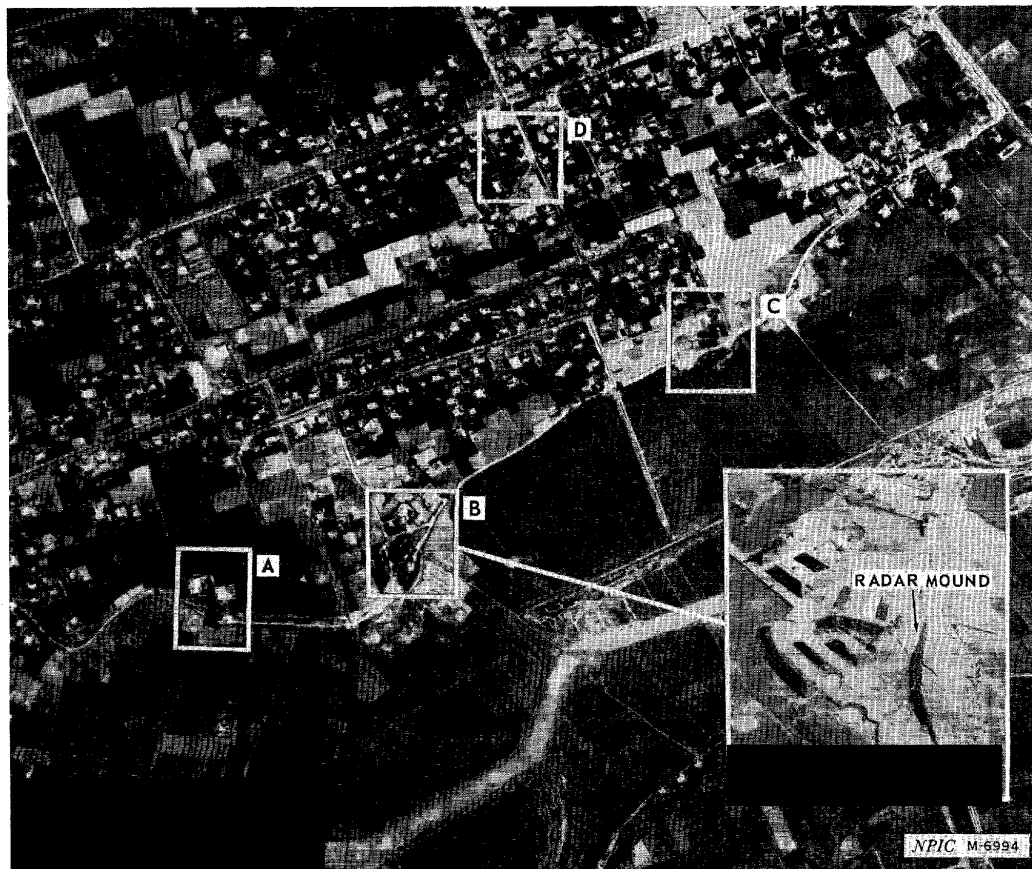
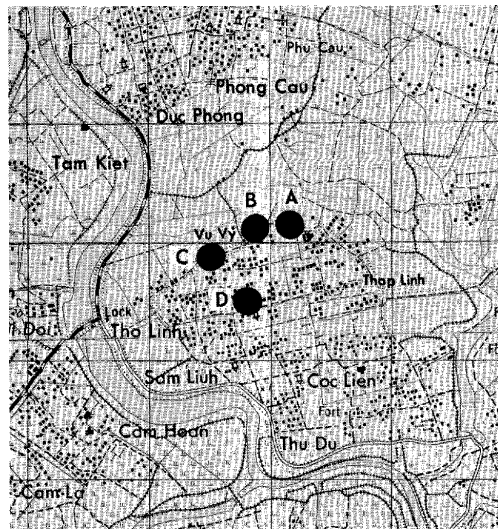
25X1C

INSTALLATION OR ACTIVITY NAME		COUNTRY
Haiphong Kien An AW/GCI Radar Facility		VN
UTM COORDINATES	GEOGRAPHIC COORDINATES	
XH759962	20-45-20N 106-41-21E	
MAP REFERENCE		
AMS. Series L7014, Sheet 6350-IV, scale 1:50,000		
LATEST IMAGERY USED		NEGATION DATE (if required)
25X1D		NA

The facility, located 6.4 nm south of Haiphong, consists of three areas. Area A has two vehicle revetments at UTM XH762962, Area B has a radar mound, four vehicle revetments, and two storage revetments at UTM XH758961, Area C has a radar mound and two vehicle revetments at UTM XH755959, and Area D has two vehicle revetments at UTM XH757956.

This facility was occupied by BAR LOCK, SIDE NET, FLAT FACE, and KNIFE REST B radars in [REDACTED] however, it was unoccupied on [REDACTED]

25X1D



25X1D

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25X1C

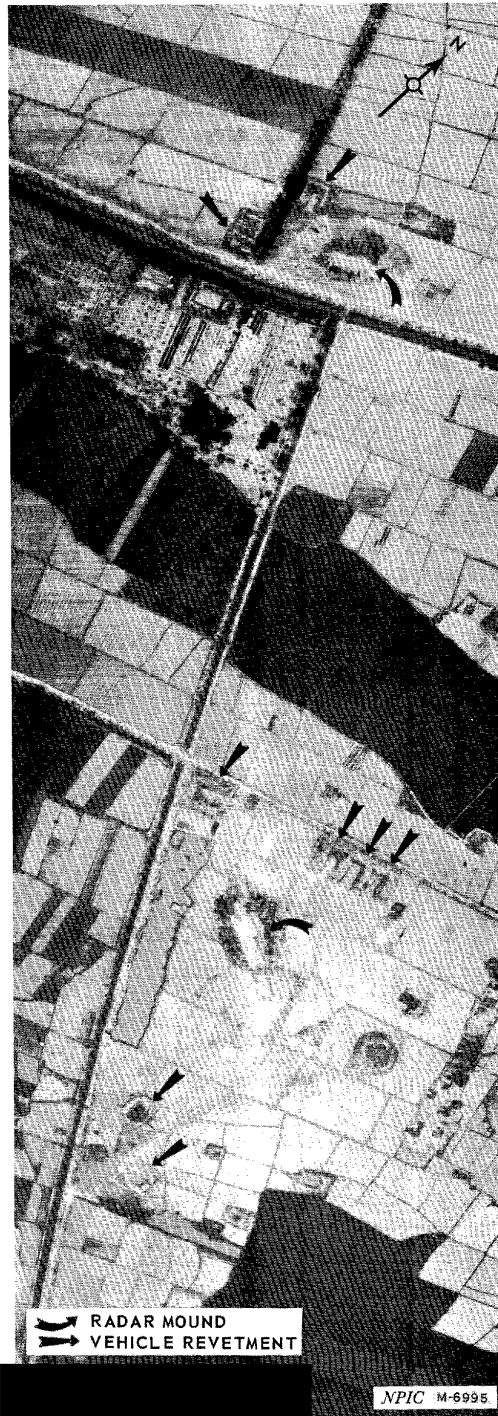
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INSTALLATION OR ACTIVITY NAME		25X1A	COUNTRY
Hanoi/Duc Tu AW/GCI Radar Facility			VN
UTM COORDINATES	GEOGRAPHIC COORDINATES		
WJ940356	21-07-17N 105-54-15E		
MAP REFERENCE			
AMS. Series L7014, Sheet 6151-II, scale 1:50,000			
LATEST IMAGERY USED		NEGATION DATE (if required)	
25X1D		NA	

The facility, located in Duc Tu, 6.7 nm NNE of the Hanoi railroad yard, consists of two radar mounds and eight vehicle revetments. Some evidences of a former AAA site are still present.

This facility was occupied by a BAR LOCK and a SIDE NET radar in early [redacted] however, it was unoccupied on [redacted]



25X1D

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Bai Thuong/Tinh Thon AW/GCI Radar Facility		VN
UTM COORDINATES	GEOGRAPHIC COORDINATES	
WH532039	19-55-56N 105-30-26E	
MAP REFERENCE		

25X1A

AMS. Series L7014, Sheet 6148-IV, scale 1:50,000

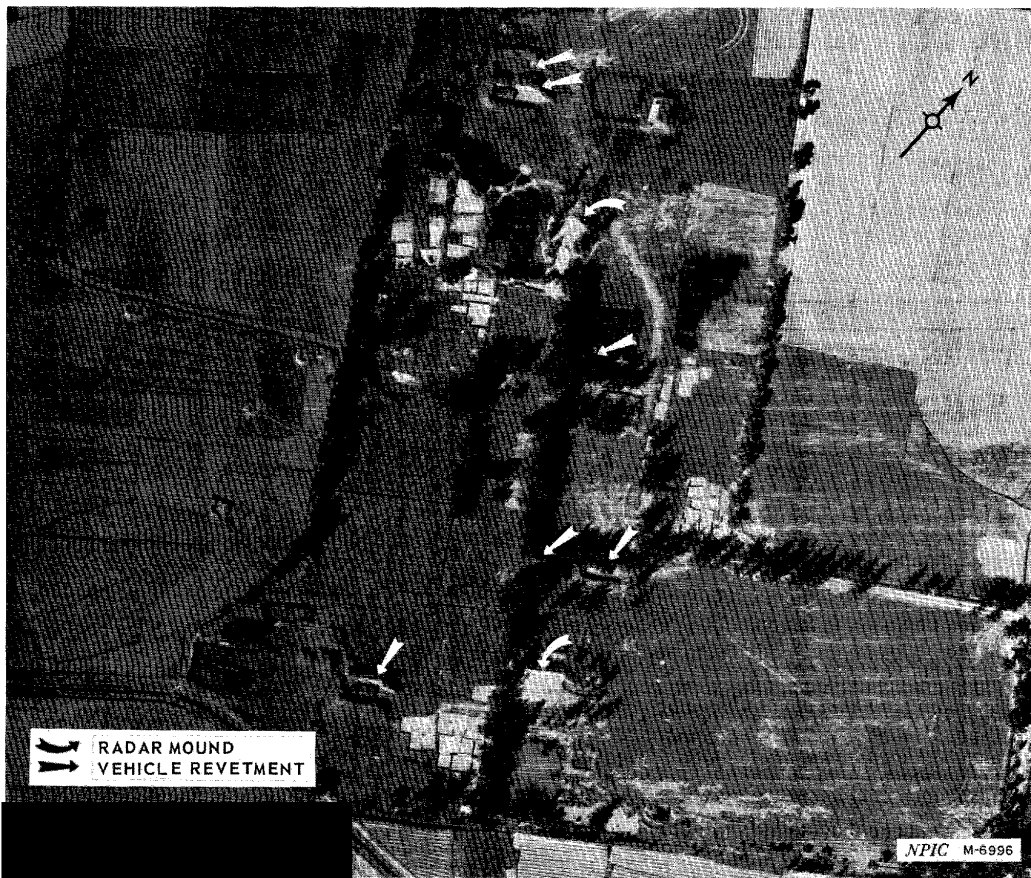
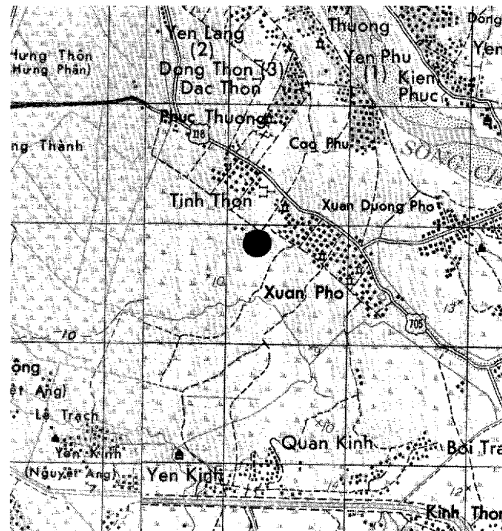
LATEST IMAGERY USED

NEGATION DATE (if required)

NA

The facility, located at Tinh Thon, 2.7 nm NE of Bai Thuong airfield, consists of two radar mounds, six vehicle revetments, and two storage revetments.

The facility has been occupied by a BAR LOCK and a SIDE NET radar; however, it was unoccupied on [REDACTED]



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25X1C

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Phuc Thuy AW/GCI Radar Facility		VN
UTM COORDINATES	GEOGRAPHIC COORDINATES	
XH047782	20-36-04N 106-00-20E	
MAP REFERENCE		

AMS. Series L7014, Sheet 6250-III, scale 1:50,000

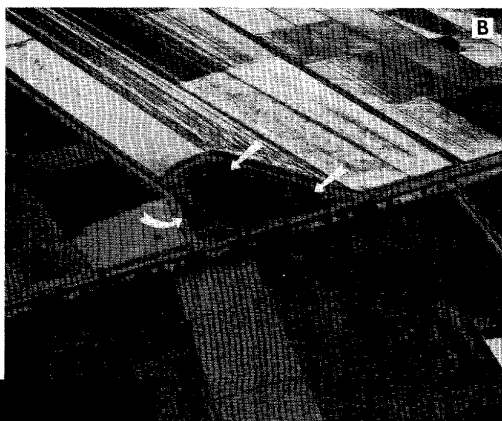
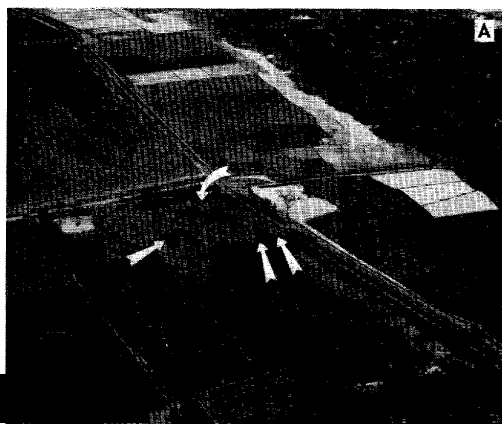
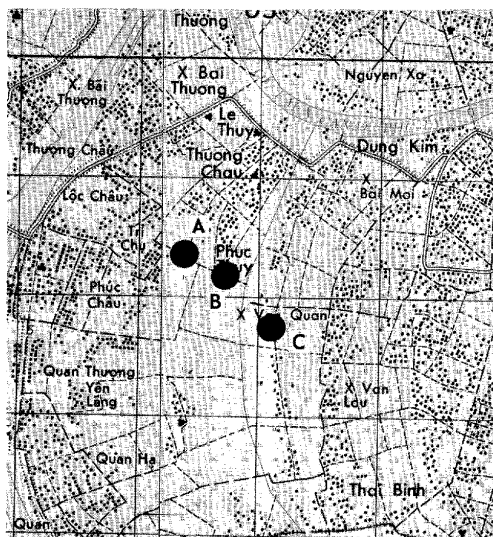
LATEST IMAGERY USED

NEGATION DATE (If required)

NA

The facility, located immediately SW of Phuc Thuy and 14.4 nm NW of Nam Dinh, consists of three areas. Area A has one radar mound and three vehicle revetments at UTM XH044784, Area B has one radar mound and two vehicle revetments at UTM XH047782, and Area D has three vehicle revetments at UTM XH051778.

This facility was occupied by a platform-mounted CROSS SLOT radar on the mound in Area A in early [REDACTED] however, it was unoccupied on [REDACTED]



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INSTALLATION OR ACTIVITY NAME				COUNTRY	
Phuc Yen/Duc Hau AW/GCI Radar Facility				25X1A	
UTM COORDINATES		GEOGRAPHIC COORDINATES		CATEGORY	BE NUMBER
WJ918484		21-14-12N 105-53-04E			
MAP REFERENCE					

AMS. Series L7014, Sheet 6151-II, scale 1:50,000

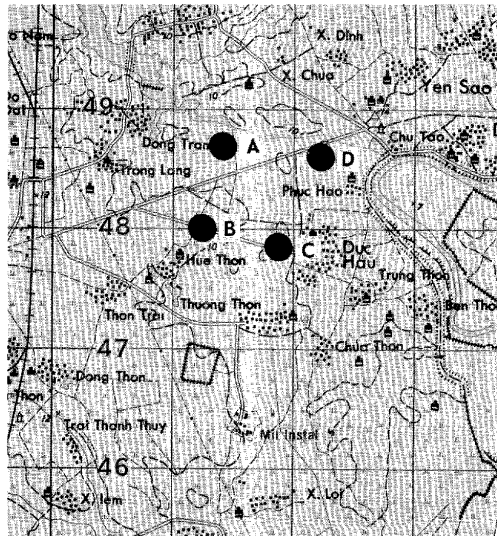
LATEST IMAGERY USED

NEGATION DATE (if required)

NA

The facility, located 4.3 nm ENE of the Phuc Yen Airfield, consists of four areas. Area A has one radar mound and four vehicle revetments at UTM WJ914487, Area B has one radar mound and two vehicle revetments at UTM WJ913480, Area C has two vehicle revetments at UTM WJ919480, and Area D has two vehicle revetments at UTM WJ919486. An additional vehicle revetment is located just east of Area A.

This facility was occupied in [REDACTED] by BIG BAR, SIDE NET, FLAT FACE, and KNIFE REST B radars; however, it was unoccupied on [REDACTED]



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INSTALLATION OR ACTIVITY NAME		COUNTRY
Bach Mai/Nhan My AW/GCI Radar Facility		VN
UTM COORDINATES	GEOGRAPHIC COORDINATES	
WJ789249	21-01-33N 105-45-34E	
MAP REFERENCE		

AMS. Series L7014, Sheet 6151-II, scale 1:50,000

LATEST IMAGERY USED

NEGATION DATE (if required)

25X1D

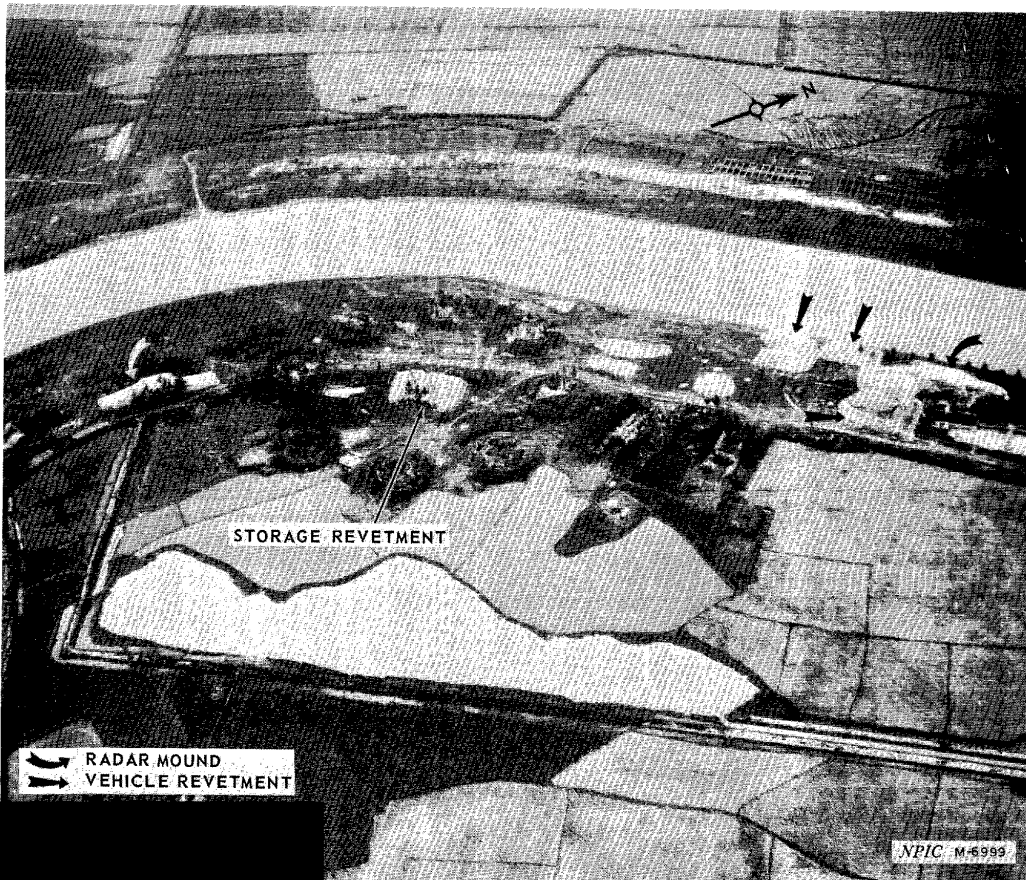
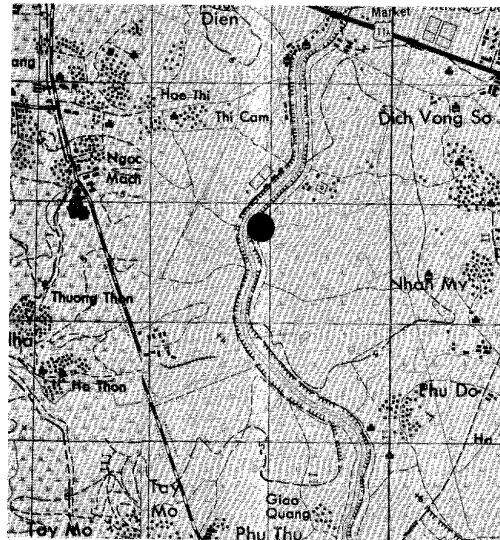
NA

The facility, located 1.0 nm WNW of Nhan My and 3.8 nm west of the Hanoi Railroad Yards, has recently been rebuilt and consists of two radar mounds, one with four adjacent vehicle revetments, and one storage revetment. The site is located at a former AAA site with the AAA-associated revetments still present.

This facility was occupied by BIG BAR, SIDE NET, and MOON FACE radars in [REDACTED] however, it was unoccupied on [REDACTED]

25X1D

25X1D



NPIC M-6999

25X1D

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INSTALLATION OR ACTIVITY NAME				COUNTRY	
Bach Mai/Phu Dien AW/GCI Radar Facility				VN	
UTM COORDINATES		GEOGRAPHIC COORDINATES	CATEGORY	BE NUMBER	COMIREX NO.
WJ806280		21-03-06N 105-46-29E			
MAP REFERENCE					

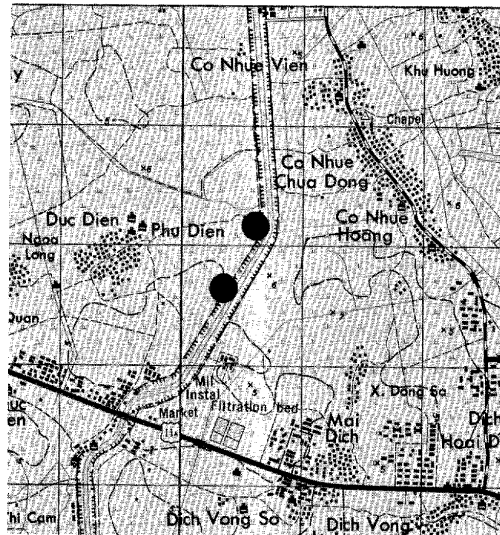
AMS. Series L7014, Sheet 6151-II, scale 1:50,000

LATEST IMAGERY USED	NEGATION DATE (if required)
25X1D	NA

The facility, located 0.6 nm east of Phu Dien and 4.2 nm WNW of Hanoi, consists of two areas. Area A has one radar mound with two vehicle revetments at UTM WJ806282 and Area B has one radar mound with four vehicle revetments at UTM WJ804277.

This facility was occupied by a BAR LOCK and a SIDE NET radar on

25X1D



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INSTALLATION OR ACTIVITY NAME		COUNTRY
Ha Dong AW/GCI Radar Facility		VN
UTM COORDINATES	GEOGRAPHIC COORDINATES	
WJ757219	20-59-52N 105-43-42E	
MAP REFERENCE		

25X1A

AMS. Series L7014, Sheet 6150-IV, scale 1:50,000

LATEST IMAGERY USED

NEGATION DATE (if required)

25X1D

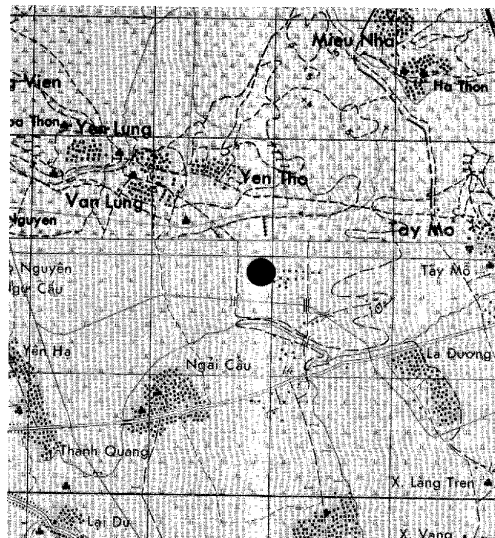
NA

The facility, located 2.6 nm NW of Ha Dong and 5.2 nm west of the Hanoi/Bac Mai Airfield, consists of two radar mounds, one with four adjacent vehicle revetments and one with two vehicle revetments. One additional vehicle revetment is located just east of the site and two vehicle revetments are located 500 yards north of the site.

25X1D

This facility has been occupied almost continually since [REDACTED] by a BAR LOCK and a SIDE NET radar; however, on [REDACTED] it was occupied by a BAR LOCK and a SPOON REST radar.

25X1D



25X1D

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25X1C

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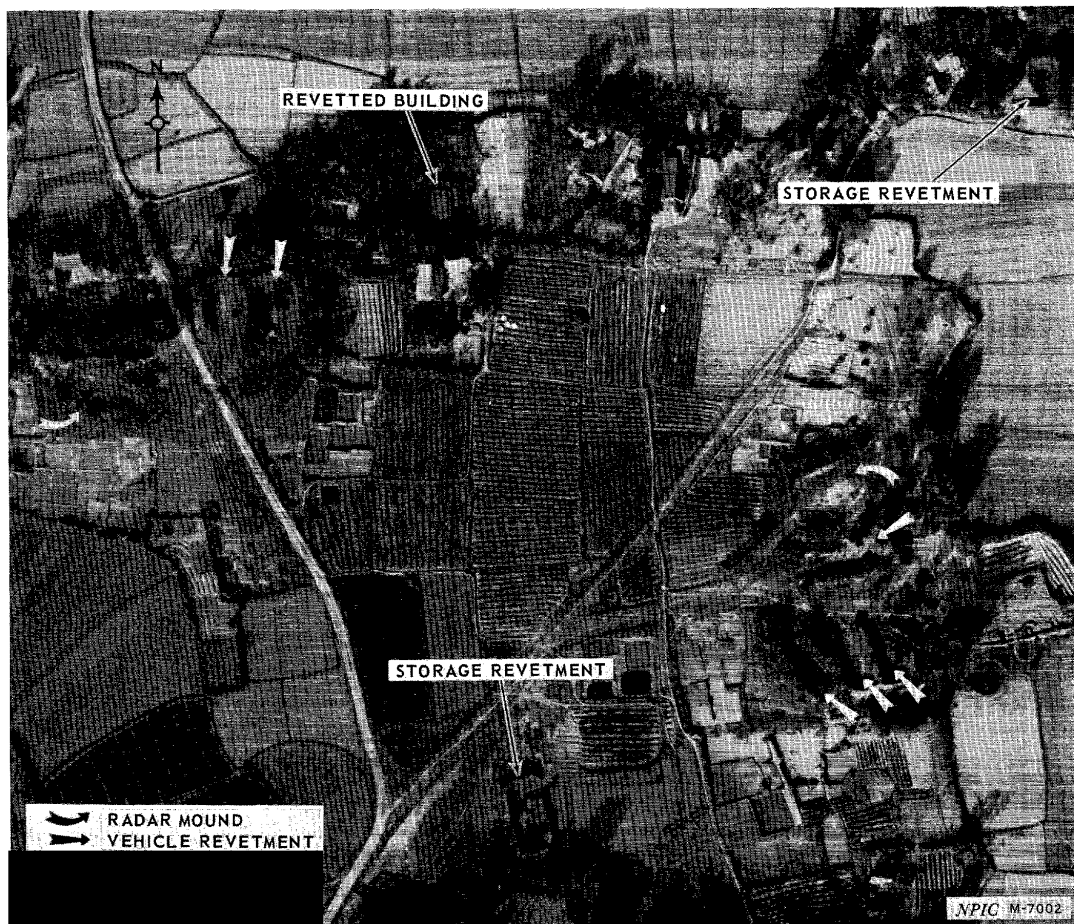
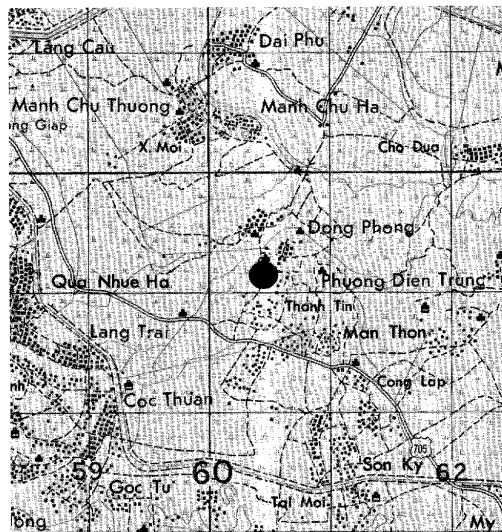
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INSTALLATION OR ACTIVITY NAME		COUNTRY
Bai Thuong/Dong Phong AW/GCI Radar Facility		VN
UTM COORDINATES	GEOGRAPHIC COORDINATES	
WG604992	19-53-21N 105-34-40E	
MAP REFERENCE		
AMS. Series L7014, Sheet 6148-IV, scale 1:50,000		
LATEST IMAGERY USED		NEGATION DATE (if required)
25X1D		NA

The facility, located adjacent to the village of Dong Phong and 10.6 nm east of Bai Thuong, consists of two radar mounds, one with four adjacent vehicle revetments and one with two adjacent vehicle revetments. One revetted building (without a roof) and two storage revetments are also present.

This facility formerly consisted of two pairs of vehicle revetments and was occupied in [REDACTED] by a MOON FACE radar; however, it was unoccupied on [REDACTED]



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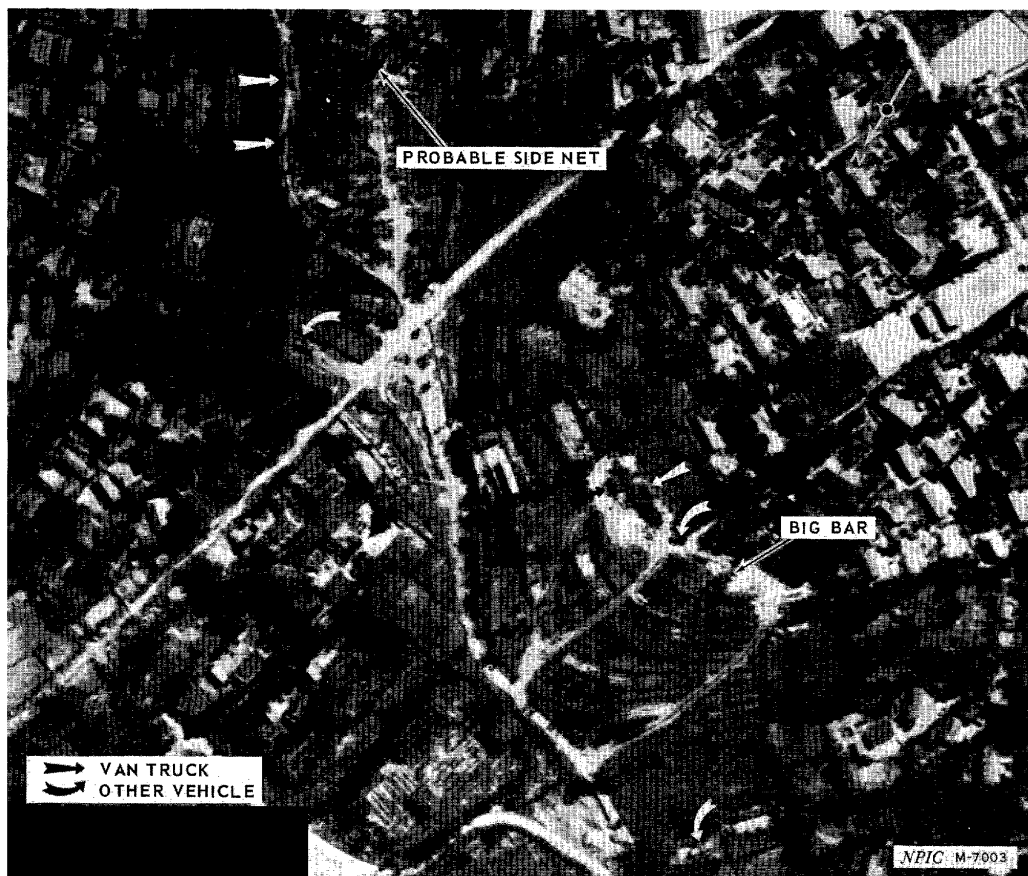
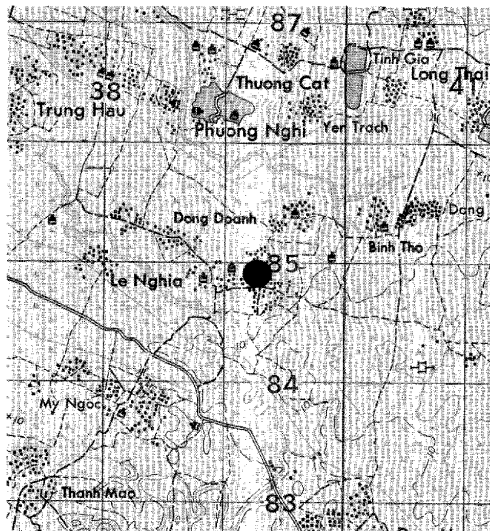
INSTALLATION OR ACTIVITY NAME		COUNTRY
Cam Ngoc/Le Nghia AW/GCI Radar Facility		VN
UTM COORDINATES	GEOGRAPHIC COORDINATES	
WF393849	18-51-30N 105-22-25E	
MAP REFERENCE		

AMS. Series L7014, Sheet 6046-I, scale 1:50,000

LATEST IMAGERY USED	NEGATION DATE (if required)
25X1D	NA

The facility, located in Le Nghia, 4.7 nm SE of Cam Ngoc, consists of a BIG BAR and a probable SIDE NET radar located on a low hill. There are no revetments present; however the van trailers are positioned so as to be partially protected by the terrain.

This facility was occupied by a BIG BAR and a SIDE NET radar, four van trailers, one unidentified vehicle, one tracked prime mover, and one cargo truck on



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INSTALLATION OR ACTIVITY NAME		COUNTRY
Duyen Thuong AW/GCI Radar Facility		VN
UTM COORDINATES	GEOGRAPHIC COORDINATES	
WH657109	19-59-43N 105-37-43E	
MAP REFERENCE		

25X1A

AMS. Series L7014, Sheet 6148-IV, scale 1:50,000

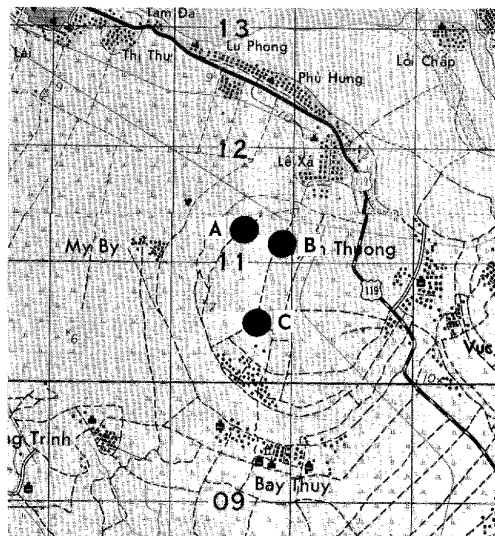
LATEST IMAGERY USED

NEGATION DATE (if required)

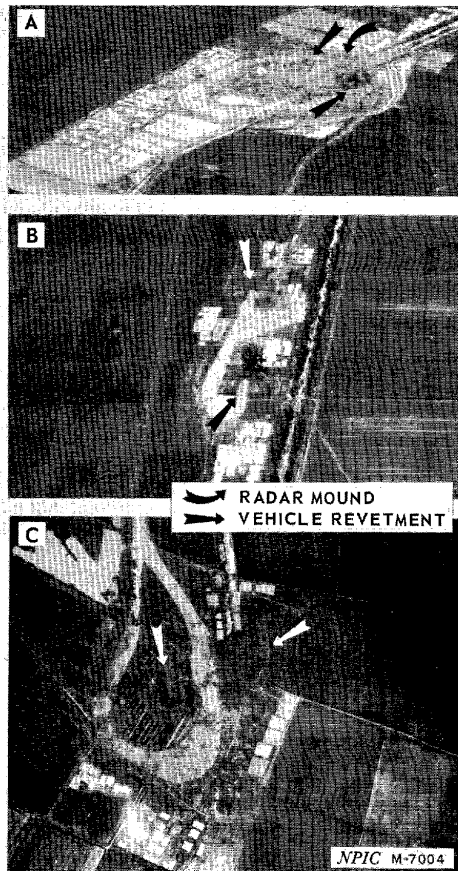
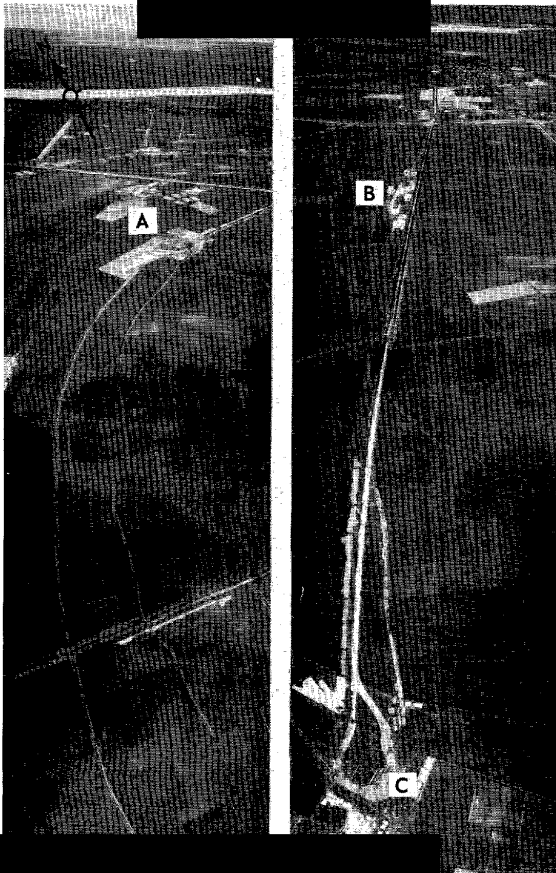
NA

The facility located near Duyen Thuong, 13.8 nm NE of Thanh Hoa, consists of three areas. Area A has one radar mound and two vehicle revetments at UTM WH656113, Area B has two vehicle revetments at UTM WH659112, and Area C has two vehicle revetments at UTM WH657105.

This facility has not been observed occupied although it probably is an alternate location for the MOON FACE and STONE CAKE radars located at Bai Thuong/Trai Thon AW/GCI Radar Facility (page A-3).



25X1D



A-33

SECRET

25X1C

NO FOREIGN DISSEM

25X1D

25X1D

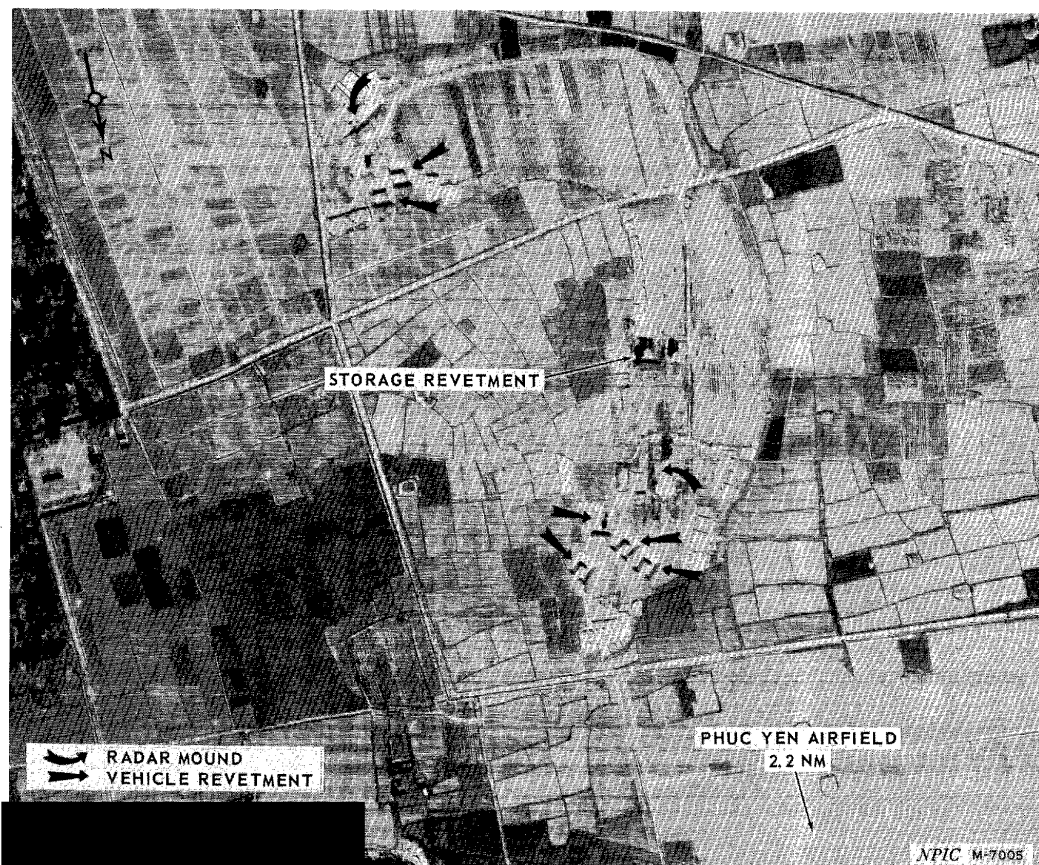
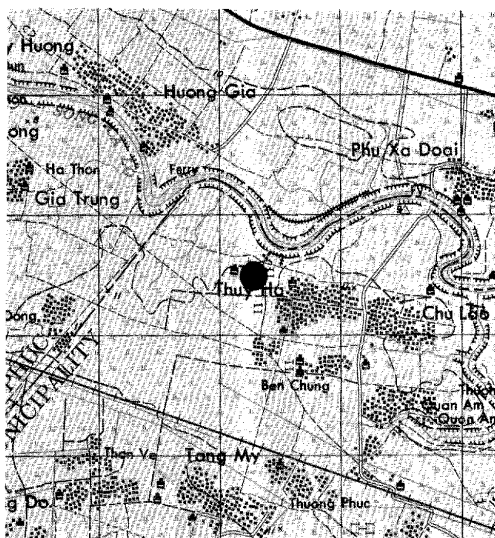
INSTALLATION OR ACTIVITY NAME		25X1A	COUNTRY
Hanoi/Thuy Ha AW/GCI Radar Facility			VN
UTM COORDINATES	GEOGRAPHIC COORDINATES		
WJ832424	21-11-00N 105-48-08E		
MAP REFERENCE			

AMS. Series L7014, Sheet 6151-II, scale 1:50,000

LATEST IMAGERY USED	NEGATION DATE (if required)
[REDACTED]	NA

This facility, located immediately west of Thuy Ha and 2.2 nm south of the Phuc Yen airfield, consists of two mounds, one with four adjacent vehicle revetments and one with two adjacent vehicle revetments. A storage revetment is located between the radar mounds.

This facility has been occupied by BAR LOCK and SIDE NET radars with a KNIFE REST B on the edge of a nearby village; however, only the BAR LOCK and SIDE NET could be identified on [REDACTED]



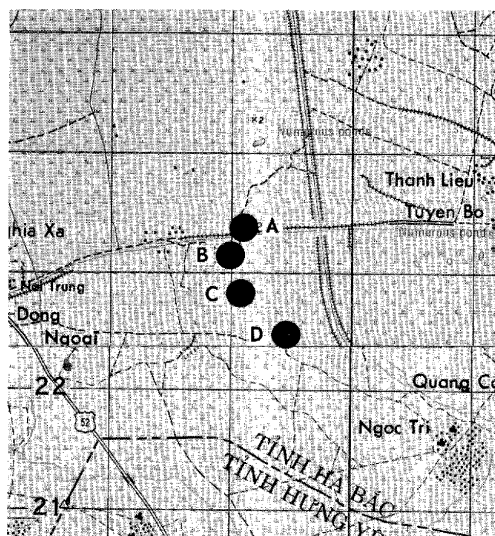
~~SECRET~~

NO FOREIGN DISSEM

INSTALLATION OR ACTIVITY NAME		25X1A	COUNTRY
Nghia Xa/Dong Ngoai AW/GCI Radar Facility			VN
UTM COORDINATES	GEOGRAPHIC COORDINATES		
XJ192230	21-00-20N 106-08-40E		
MAP REFERENCE			
AMS. Series L7014, Sheet 6251-II, scale 1:50,000			
LATEST IMAGERY USED		NEGATION DATE (if required)	
25X1D		NA	

The facility, located 1.3 nm east of Dong Ngoai and 12.1 nm SSW of Bac Ninh, consists of four areas. Area A has one radar mound, three vehicle revetments, and one storage revetment at UTM XJ191234, Area B has one radar mound and two vehicle revetments at UTM XJ190232, Area C has two vehicle revetments at UTM XJ191228, and Area D has two vehicle revetments at UTM XJ195225.

This facility has never been observed occupied.



A-37

~~SECRET~~

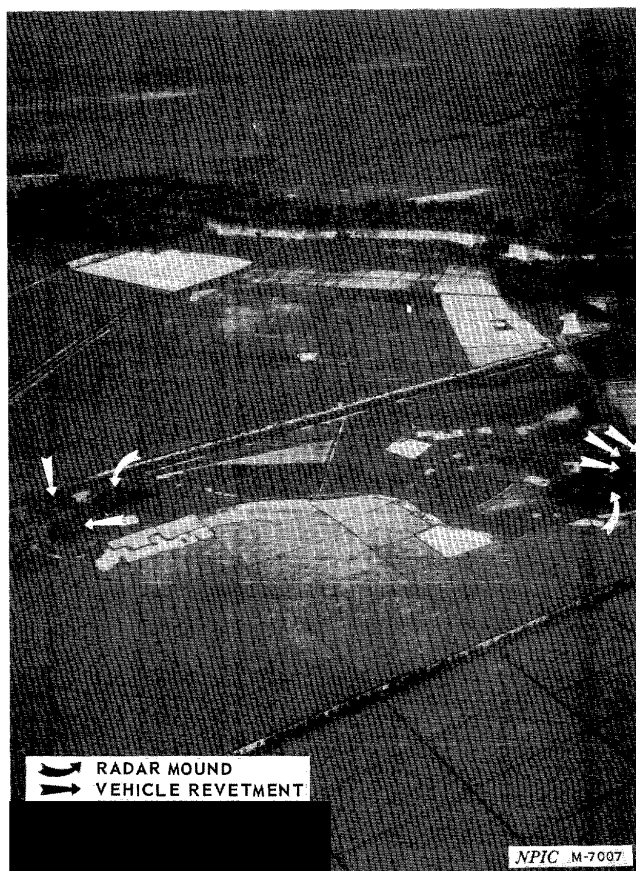
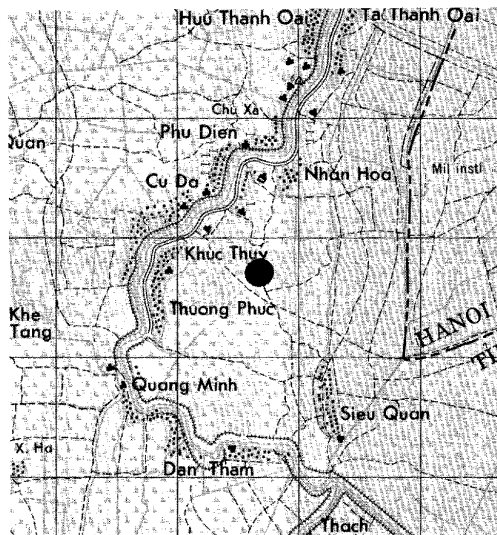
NO FOREIGN DISSEM

INSTALLATION OR ACTIVITY NAME		25X1A	COUNTRY
Ha Dong/Sieu Quan AW/GCI Radar Facility			VN
UTM COORDINATES	GEOGRAPHIC COORDINATES		
WJ837137	20-55-20N 105-48-20E		
MAP REFERENCE			
AMS. Series L7014, Sheet 6150-I, scale 1:50,000			

LATEST IMAGERY USED	NEGATION DATE (if required)
25X1D	NA

The facility, located 3 nm SSE of Ha Dong, near the village of Sieu Quan, consists of two radar mounds, one with three vehicle revetments and one with two vehicle revetments. The facility was constructed on the site of a former AAA site and some AAA revetments are still present.

This facility was occupied by a BAR LOCK and a SIDE NET radar on

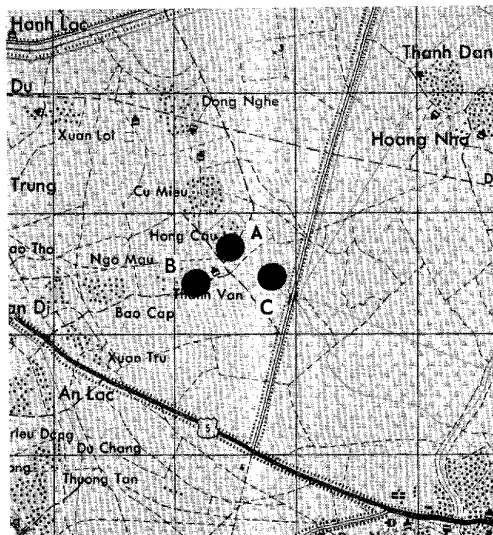


NO FOREIGN DISSEM

INSTALLATION OR ACTIVITY NAME		25X1A	COUNTRY
Thuong Che/Hong Cau AW/GCI Radar Facility			VN
UTM COORDINATES	GEOGRAPHIC COORDINATES		
XJ063177	20-57-32N 106-01-22E		
MAP REFERENCE			
AMS. Series L7014, Sheet 6250-IV, scale 1:50,000			
LATEST IMAGERY USED		NEGATION DATE (if required)	
25X1D		NA	

The facility, located on the SW edge of Hong Cau, consists of three areas. Area A has one radar mound with two vehicle revetments (one long) at UTM XJ064178, Area B has one radar mound and two vehicle revetments at UTM XJ061175, and Area C has two vehicle revetments at UTM XJ067176.

This facility was occupied by BAR LOCK, SIDE NET, and KNIFE REST B radars on [REDACTED]. A probable discone VHF communications antenna was also observed.



A-41

SECRET

25X1C

NO FOREIGN DISSEM

